

**CITY OF DEFIANCE  
WATER DIVISION**

**2021-2022 ANNUAL CHEMICAL BID PACKET**

This bid packet contains information on supplying sealed bids to the City of Defiance Water Division for the following chemicals:

- Fluorosilicic Acid
- LimeCure 50 (Lime Polymer)
- Liquid Carbon Dioxide
- Liquid Ferric Chloride
- Liquid Polyphosphate
- Liquid Sodium Hypochlorite
- Liquid Sodium Permanganate
- Pebble Quick Lime
- Powdered Activated Carbon

More than one bid packet may be available. Please be sure to verify packet content and to regularly check our website for additional information, addendums, and bid results.

<http://cityofdefiance.com/divisions/engineering/project-bids/>

## BID INSTRUCTIONS

### City of Defiance Water Division

#### BIDDING INSTRUCTIONS:

- Each bidder is required to complete and submit this original bid form/specification sheet, if bidding on this chemical.
  - *You are required to bid in pounds, gallons, or tons as requested on Bid Form. **We do not convert bids.***
  - *Only return Bid Form of chemical(s) you are bidding on and any necessary items related thereto.*
  - *Do not return Bid Form showing "No Bid."*
    - *Bidders List Retention is maintained with a good working e-mail address. Addresses only deleted upon being returned as undeliverable. **You are responsible to keep the right e-mail address in our system. If there are changes, e-mail changes to [nandrist@cityofdefiance.com](mailto:nandrist@cityofdefiance.com).***
- Failure to meet all of the required specifications, and/or failure to supply all requested documentation, may result in rejection of any bid.
- The City reserves the right to accept or reject any and all bids.
- **Bids will be received at Water Division Office 2<sup>nd</sup> Floor, 1356 Baltimore St., Defiance OH 43512-1904 up to one-half hour before bid opening time.**
- Any Bidders wishing to attend the bid opening may deliver their bids at the bid opening, provided that they are received by the City prior to the opening of the first bid.
- A bond must accompany each bid packet in the sum of \$500 as surety for the execution of the purchase agreement (*See Legal Notice for details*).
- Bid Tabulations will not be mailed back to Bidders. Once the tabulation is confirmed, it will be posted online at: <http://cityofdefiance.com/divisions/engineering/project-bids/>

#### SECURITY/DELIVERY REQUIREMENTS:

The vendor/supplier will be made aware of, and be required to comply with, any security and delivery requirements of the City which are currently in effect or that are introduced at a later date. Some typical security items are as follows:

1. All chemical shipments will require authorization for delivery at least two (2) days prior to the delivery date. **Delivery times will be from 8am-3:30pm Monday through Friday (unless authorized by plant personnel).** The Water Plant is a gated facility and no overnight or extended on-site parking will be permitted.
2. The identity of the vendor, driver, and serial numbers of the tanks in the shipment will be identified by the vendor at least two (2) days prior to delivery. The driver will be required to show a picture ID prior to accepting delivery.
3. The driver will be escorted while on-site or the truck/driver will be under video surveillance.
4. The driver will have restricted access to the site and the driver will use only the bathroom and waiting area designated by the City during transfer and paperwork activities.
5. The City reserves the right to be informed of the identity of the vendor's driver before delivery and may perform a background check on that driver.



Mike McCann, Mayor  
Jeffery S. Leonard, City Administrator  
John W. Lehner, Finance Director  
Sean C. O'Donnell, Law Director

## LEGAL NOTICE FOR BIDS

Sealed bids will be received by the Water Superintendent of the City of Defiance, Ohio, until **Wednesday, August 11, 2021**, for Water Division 2019-2022 annual Chemical Bids. **ALL PROPOSALS** for the Water Division Chemicals shall be sealed and endorsed on the envelope, **"Water Division 2021-2022 Annual Chemical Bids"**, and **SENT TO Defiance Water Division, 1356 Baltimore St., Defiance, Ohio 43512-1904** or **DELIVERED TO the Water Division Office 2<sup>nd</sup> Floor, 1356 Baltimore St., Defiance, Ohio by 12:30 PM Local Time, Wednesday, August 11, 2021**. Bidders who wish to attend the bid opening may deliver their bids at the bid opening, provided that they are received by the Water Superintendent prior to the opening of the first bid.

Water Division bid proposals will be publicly opened and read at **1:00 PM Local Time on Wednesday, August 11, 2021**, in the Conference Room located in the City Service Building, 631 Perry St., Defiance, Ohio.

All bid proposals must be submitted on the Bid Form furnished with the specifications. Each bid proposal must contain the full name of every person or company interested in same. Specifications and bidding blanks may be picked up at the Water Division Office or may be obtained online at:

<http://cityofdefiance.com/divisions/engineering/project-bids/>

Each proposal must be accompanied by a bond with an approved Surety Company, in the sum of \$500.00, as surety for the execution of the Purchase Agreement. A certified check on a solvent bank, drawn and made payable to 'The City of Defiance, Ohio' in the sum of \$500.00 will be accepted in lieu of said bond. Said certified check or bond must be enclosed in the sealed bid envelope. Should any bid proposal be rejected, such certified check or bond shall be returned to the bidder, and should any bid proposal be accepted, such certified check or bond will be returned upon proper execution and securing of the Purchase Agreement.

The City of Defiance, Ohio, reserves the right to reject any and all bids, and to award to the lowest responsive and responsible bidder, and to waive any irregularities in bidding.

THE CITY OF DEFIANCE  
By order of ... Jeff Leonard  
City Administrator

Dated: July 21, 2012

Advertise: Thursday, July 29, 2021  
Thursday, August 5, 2021

## **SPECIFICATION FOR BID Fluorosilicic Acid**

### **PRODUCT REQUIREMENTS:**

1. Shall be delivered F.O.B. in 55-gallon drums having a recessed flat top and a lip or rim located at the top of the drum to be used for supporting the drum in the drum clamp during unloading. Shall be delivered in truck equipped with a power lift gate. The supplier of the drums shall be responsible for any deposits and return of empty drums.
2. Shall be delivered in minimum lots of 6 drums.
3. Shall conform to AWWA standard B703 of latest revision. An affidavit stating that the product complies with this standard, and a certificate of analysis of the product, must be provided upon request.
4. Shall contain **22-25%** Fluorosilicic acid by weight, and shall contain a maximum of one percent free acids (other than Fluorosilicic acid), expressed as HF (hydrofluoric acid).
5. Shall be approximately 10.5 - 10.6 lbs/gal
6. The fluorosilicic acid supplied according to this standard shall be clean and free of any visible suspended matter. It shall be white to straw yellow in color.
7. Shall be free and clean of impurities, including mineral or organic substances that may produce injurious affects on the health of those who consume the water being treated with the product. A copy of the laboratory analyses of contaminants found in this product shall be provided upon request.
8. Shall contain no more than 0.02% heavy metals (Pb).
9. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60, Drinking Water Treatment Chemicals – Health Effects. Verification of compliance shall be provided with bid documents.
10. In the event that an analysis by a referee or third-party laboratory is required to verify product quality, the supplier of the product shall pay all related cost for testing and shipping.
11. A product data sheet and MSDS sheet shall be provided upon request.

**REFERENCES MUST BE AVAILABLE ON REQUEST FOR ANY OF THE ABOVE REQUIREMENTS.**

# BID FORM

## Fluorosilicic Acid

1. The City of Defiance Water Division anticipates purchasing 45,000 pounds, more or less, of Fluorosilicic Acid from October 1, 2021 to September 30, 2022.
2. Bidder shall provide a toll-free or collect call phone number for ordering purposes.
3. Shall be bid as unit price per pound.
4. The City desires that the bid price shall be for a 12-month period from October 1, 2021 to September 30, 2022. The bid price shall be firm without increase (i.e., fuel surcharges) for this period.
5. The undersigned hereby certifies that the supplies listed on this bid proposal conform to the bid specifications in full and that any deviations from the said specifications are itemized below with a full explanation of the nature of the deviation. Further, the undersigned understands that any purchase made under a Contract for the same must comply with the bid specifications or the listed deviations, or the Contract may be considered canceled as a breach of Contract and another supplier may be awarded the remainder of the Contract.

**PRODUCT INFORMATION NOTES:** \_\_\_\_\_  
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### Contract from October 1, 2021 to September 30, 2022

<i>Product Name</i>	<i>Cost/Unit</i>
<i>Authorized Signature</i>	<i>Printed Name</i>
<i>Company Name</i>	<i>Title</i>
<i>Contract Address</i>	<i>Date Signed</i>
<i>Contract City State Zip</i>	<i>Sales Contact Phone Number</i>
<i>Contract Execution Email</i>	<i>Sales Contact E-Mail</i>

## **SPECIFICATION FOR BID Lime Polymer LimeCure 50**

### **PRODUCT REQUIREMENTS:**

1. Shall be delivered F.O.B. in 275 gallon lots by bulk delivery.
2. Delivery truck shall be capable of connecting to a 2" cam-lock fitting and capable of offloading to a bulk tank.
3. Product must sequester calcium over a broad pH range and leave no noticeable residual in finished water.
4. Product must be non-toxic as listed in the water chemical code.
5. Product must be a homogeneous liquid and not precipitate out during normal storage and have a shelf-life stability of one-year or greater.
6. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals – Health Effects. Verification of compliance shall be provided with bid documents.
7. In the event that an analysis by a referee or third-party laboratory is required to verify product quality, the supplier of the product shall pay all related cost for testing and shipping.
8. A product data sheet and MSDS sheet shall be provided upon request.

**REFERENCES MUST BE AVAILABLE ON REQUEST FOR ANY OF THE ABOVE REQUIREMENTS.**

**BID FORM**  
**Lime Polymer LimeCure 50**

1. The City of Defiance Water Division anticipates purchasing 15,400 pounds, more or less, of AS-8750 Lime Polymer from October 1, 2021 to September 30, 2022.
2. Bidder shall provide a toll-free or collect call phone number for ordering purposes.
3. Shall be bid as unit price per gallon.
4. The City desires that the bid price shall be for a 12-month period from October 1, 2021 to September 30, 2022. The bid price shall be firm without increase (i.e., fuel surcharges) for this period.
5. The undersigned hereby certifies that the supplies listed on this bid proposal conform to the bid specifications in full and that any deviations from the said specifications are itemized below with a full explanation of the nature of the deviation. Further, the undersigned understands that any purchase made under a Contract for the same must comply with the bid specifications or the listed deviations, or the Contract may be considered canceled as a breach of Contract and another supplier may be awarded the remainder of the Contract.

**PRODUCT INFORMATION NOTES:** \_\_\_\_\_  
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**Contract from October 1, 2021 to September 30, 2022**

<i>Product Name</i>	<i>Cost/Unit</i>
<i>Authorized Signature</i>	<i>Printed Name</i>
<i>Company Name</i>	<i>Title</i>
<i>Contract Address</i>	<i>Date Signed</i>
<i>Contract City State Zip</i>	<i>Sales Contact Phone Number</i>
<i>Contract Execution Email</i>	<i>Sales Contact E-Mail</i>

## **SPECIFICATION FOR BID Liquid Carbon Dioxide**

### **PRODUCT REQUIREMENTS:**

1. Shall be delivered F.O.B. in truckload lots of approximately 20 tons per truckload.
2. Shall be delivered via a 1" supply line equipped with a half union.
3. Shall be accompanied by a certified weigh slip showing gross, tare and net weights.
4. Shall conform to AWWA standard B510 of latest revision. Specifically, the Limiting Characteristics listed in Table 1- Column I shall apply.
5. Shall contain not less than 99.8% pure carbon dioxide.
6. The water content of the Liquid Carbon Dioxide shall not exceed 200 ppm at the time of delivery.
7. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals – Health Effects. Verification of compliance shall be included with bid documents.
8. In the event that an analysis by a referee or third-party laboratory is required to verify product quality, the supplier of the product shall pay all related cost for testing and shipping.
9. A product data sheet and MSDS sheet shall be included with the bid.

**REFERENCES MUST BE AVAILABLE ON REQUEST FOR ANY OF THE ABOVE REQUIREMENTS.**



# BID FORM

## Liquid Carbon Dioxide

1. The City of Defiance Water Division anticipates purchasing 120 tons, more or less, of liquid carbon dioxide from October 1, 2021 to September 30, 2022.
2. Bidder shall provide a toll-free or collect call phone number for ordering purposes.
3. Shall be bid as unit price per ton.
4. The City desires that the bid price shall be for a 12-month period from October 1, 2021 to September 30, 2022. The bid price shall be firm without increase (i.e., fuel surcharges) for this period.
5. The undersigned hereby certifies that the supplies listed on this bid proposal conform to the bid specifications in full and that any deviations from the said specifications are itemized below with a full explanation of the nature of the deviation. Further, the undersigned understands that any purchase made under a Contract for the same must comply with the bid specifications or the listed deviations, or the Contract may be considered canceled as a breach of Contract and another supplier may be awarded the remainder of the Contract.

**PRODUCT INFORMATION NOTES:** \_\_\_\_\_  
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### Contract from October 1, 2021 to September 30, 2022

<i>Product Name</i>	<i>Cost/Unit</i>
<i>Authorized Signature</i>	<i>Printed Name</i>
<i>Company Name</i>	<i>Title</i>
<i>Contract Address</i>	<i>Date Signed</i>
<i>Contract City State Zip</i>	<i>Sales Contact Phone Number</i>
<i>Contract Execution Email</i>	<i>Sales Contact E-Mail</i>

## **SPECIFICATION FOR BID**

### **Liquid Ferric Chloride**

#### **PRODUCT REQUIREMENTS:**

1. Shall be delivered F.O.B. in truckload lots of approximately 4,000 gallons per truckload.
2. Shall be delivered via a 2" supply line equipped with a 2" 4 bolt flange or 2" cam-lock connection.
3. It will be the responsibility of the successful bidder to make any and all repairs to any paved surface or building damaged during delivery process.
4. Shall be accompanied by a certified weigh slip showing gross, tare and net weights. A Certificate of Analysis shall also be included with each shipment.
5. Shall conform to AWWA standard B407 of latest revision.
6. Shall be soluble in water and contain no less than 36-47% FeCl<sub>3</sub> by weight and no more than 2.5% ferrous iron.
7. Shall contain no more than 1% free acid as HCL.
8. Shall contain no more than 0.2% total insoluble material by weight.
9. Shall be delivered in liquid form with a specific gravity of 1.3 to 1.5.
10. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals – Health Effects. Verification of compliance shall be provided with bid documents.
11. In the event that an analysis by a referee or third-party laboratory is required to verify product quality, the supplier of the product shall pay all related cost for testing and shipping.
12. A product data sheet and MSDS sheet shall be included with the bid.

**REFERENCES MUST BE AVAILABLE ON REQUEST FOR ANY OF THE ABOVE REQUIREMENTS.**

# BID FORM

## Liquid Ferric Chloride

1. The City of Defiance Water Division anticipates purchasing 400 dry tons, more or less, of liquid ferric chloride from October 1, 2021 to September 30, 2022.
2. Bidder shall provide a toll-free or collect call phone number for ordering purposes.
3. Shall be bid as unit price per dry ton.
4. The City desires that the bid price shall be for a 12-month period from October 1, 2021 to September 30, 2022. The bid price shall be firm without increase (i.e., fuel surcharges) for this period.
5. The undersigned hereby certifies that the supplies listed on this bid proposal conform to the bid specifications in full and that any deviations from the said specifications are itemized below with a full explanation of the nature of the deviation. Further, the undersigned understands that any purchase made under a Contract for the same must comply with the bid specifications or the listed deviations, or the Contract may be considered canceled as a breach of Contract and another supplier may be awarded the remainder of the Contract.

**PRODUCT INFORMATION NOTES:** \_\_\_\_\_  
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### Contract from October 1, 2021 to September 30, 2022

<i>Product Name</i>	<i>Cost/Unit</i>
<i>Authorized Signature</i>	<i>Printed Name</i>
<i>Company Name</i>	<i>Title</i>
<i>Contract Address</i>	<i>Date Signed</i>
<i>Contract City State Zip</i>	<i>Sales Contact Phone Number</i>
<i>Contract Execution Email</i>	<i>Sales Contact E-Mail</i>

## **SPECIFICATION FOR BID Liquid Polyphosphate**

### **PRODUCT REQUIREMENTS:**

1. Shall be delivered F.O.B. in 500-800 gallon lots by bulk delivery.
2. Delivery truck shall be capable of connecting to a 2" cam-lock fitting and capable of offloading to an elevated bulk tank.
3. Shall conform to AWWA standard B502, of latest revision. An affidavit stating that the product complies with this standard, and a certificate of analysis of the product, must be provided upon request.
4. Product must function as a corrosion inhibitor by inhibiting iron, copper and lead by-product formation. Proof of corrosion reduction in like water qualities must be provided upon request.
5. Product must sequester iron and manganese over a broad pH range and maintain stability in domestic water systems.
6. Product must be non-toxic as listed in the water chemical code. Product must not contain bimetals (zinc) and should have a pH ranging from 4.0 - 6.0, a minimum specific gravity of 1.30 and a turbidity of less than 1.0 NTU.
7. Product shall have a total phosphate (as PO<sub>4</sub>) percent by weight of 36%, a total active complex phosphate content of 18% by weight, and a total orthophosphate content of 18% by weight.
8. Product must be able to gradually remove existing tuberculation in the distribution system without causing cosmetic problems to the end user.
9. Product must be a homogeneous liquid and not precipitate out during normal storage and have a shelf-life stability with no conversion to ortho of one-year or greater.
10. Product must not increase bacteria counts in the distribution system and must not increase system chlorine demand overall. Documentation must be available upon request on the effects of this product on a long-term basis.
11. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals – Health Effects. Verification of compliance shall be provided with bid documents.
12. In the event that an analysis by a referee or third-party laboratory is required to verify product quality, the supplier of the product shall pay all related cost for testing and shipping.
13. A product data sheet and MSDS sheet shall be provided upon request.
14. The City of Defiance is currently undertaking a Corrosion Parameter Study which may change the type of polyphosphate being utilized at the treatment plant. If and when this occurs all attempts will be made to procure the new formulation from the existing supplier within the limitations of the law.

**REFERENCES MUST BE AVAILABLE ON REQUEST FOR ANY OF THE ABOVE REQUIREMENTS.**

# BID FORM

## Liquid Polyphosphate

1. The City of Defiance Water Division anticipates purchasing 3,000 gallons, more or less, of liquid polyphosphate from October 1, 2021 to September 30, 2022.
2. Bidder shall provide a toll-free or collect call phone number for ordering purposes.
3. Shall be bid as unit price per gallon.
4. The City desires that the bid price shall be for a 12-month period from October 1, 2021 to September 30, 2022. The bid price shall be firm without increase (i.e., fuel surcharges) for this period.
5. The undersigned hereby certifies that the supplies listed on this bid proposal conform to the bid specifications in full and that any deviations from the said specifications are itemized below with a full explanation of the nature of the deviation. Further, the undersigned understands that any purchase made under a Contract for the same must comply with the bid specifications or the listed deviations, or the Contract may be considered canceled as a breach of Contract and another supplier may be awarded the remainder of the Contract.

**PRODUCT INFORMATION NOTES:** \_\_\_\_\_  
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### Contract from October 1, 2021 to September 30, 2022

<i>Product Name</i>	<i>Cost/Unit</i>
<i>Authorized Signature</i>	<i>Printed Name</i>
<i>Company Name</i>	<i>Title</i>
<i>Contract Address</i>	<i>Date Signed</i>
<i>Contract City State Zip</i>	<i>Sales Contact Phone Number</i>
<i>Contract Execution Email</i>	<i>Sales Contact E-Mail</i>

## **SPECIFICATION FOR BID**

### **Liquid Sodium Hypochlorite**

**PRODUCT REQUIREMENTS:**

1. Shall be shipped F.O.B. in suitably lined, thoroughly clean tank trucks. Typical shipment for this facility is 4,300 to 4,500 gallons.
2. Shall conform to AWWA standard B300 latest revision. An affidavit stating that the product complies with this standard, and a certificate of analysis of the product, must be provided upon request.
3. Shall contain not less than 13%, and not greater than 15% available chlorine upon delivery.
4. The total free alkali (expressed as NaOH) shall not exceed 1.5% by weight.
5. Shall contain no more than 0.15% insoluble matter by weight.
6. Shall be free and clean of impurities, including mineral or organic substances that may produce injurious affects on the health of those who consume the water being treated with the product.
7. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals – Health Effects. Verification of compliance shall be provided with bid documents.
8. In the event that an analysis by a referee or third-party laboratory is required to verify product quality, the supplier of the product shall pay all related cost for testing and shipping.
9. A product data sheet and MSDS sheet shall be provided upon request.
10. Shall be delivered via a 2" supply line equipped with a 2" cam-lock connection.

**REFERENCES MUST BE AVAILABLE ON REQUEST FOR ANY OF THE ABOVE REQUIREMENTS.**

**BID FORM**  
**Liquid Sodium Hypochlorite**

1. The City of Defiance Water Division anticipates purchasing 30,000 gallons, more or less, of liquid sodium hypochlorite from October 1, 2021 to September 30, 2022.
2. Bidder shall provide a toll-free or collect call phone number for ordering purposes.
3. Shall be bid as unit price per gallon.
4. The City desires that the bid price shall be for a 12-month period from October 1, 2021 to September 30, 2022. The bid price shall be firm without increase (i.e., fuel surcharges) for this period.
5. The undersigned hereby certifies that the supplies listed on this bid proposal conform to the bid specifications in full and that any deviations from the said specifications are itemized below with a full explanation of the nature of the deviation. Further, the undersigned understands that any purchase made under a Contract for the same must comply with the bid specifications or the listed deviations, or the Contract may be considered canceled as a breach of Contract and another supplier may be awarded the remainder of the Contract.

**PRODUCT INFORMATION NOTES:** \_\_\_\_\_  
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**Contract from October 1, 2021 to September 30, 2022**

<i>Product Name</i>	<i>Cost/Unit</i>
<i>Authorized Signature</i>	<i>Printed Name</i>
<i>Company Name</i>	<i>Title</i>
<i>Contract Address</i>	<i>Date Signed</i>
<i>Contract City State Zip</i>	<i>Sales Contact Phone Number</i>
<i>Contract Execution Email</i>	<i>Sales Contact E-Mail</i>

## **SPECIFICATION FOR BID**

### **Liquid Sodium Permanganate**

#### **PRODUCT REQUIREMENTS:**

1. Shall be shipped F.O.B.:
  - a. In suitably lined, thoroughly clean bulk tanker trailers in amounts of approximately 1,300 to 1,800 gallon per delivery. Truck shall be capable of offloading to an elevated bulk tank and shall be equipped with a 2" supply line with a 2" female cam lock adapter.
- OR -**
- b. In large totes (approximately 275 gallons each). Supplier shall transfer product from totes on truck to bulk storage tank.
2. Supplier shall be responsible for clean up of any leakage or spills resulting from the delivery/transfer of this product to bulk storage tanks.
3. The sodium permanganate content (%  $\text{NaMnO}_4$ ) of the delivered solution shall be **20%** by weight.
4. Shall conform to AWWA standard B603, Standards for Permanganates, of latest revision.
5. The permanganate supplied in accordance with this bid shall contain no substances in quantities capable of producing deleterious or injurious effects to the health of those consuming water that has been treated with the product.
6. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals – Health Effects. Verification of compliance shall be provided with bid documents.
7. In the event that an analysis by a referee or third-party laboratory is required to verify product quality, the supplier of the product shall pay all related cost for testing and shipping.
8. A product data sheet and MSDS sheet shall be included with the bid.

**REFERENCES MUST BE AVAILABLE ON REQUEST FOR ANY OF THE ABOVE REQUIREMENTS.**



**BID FORM**  
**Liquid Sodium Permanganate**

1. The City of Defiance Water Division anticipates purchasing 66,000 pounds, more or less, of 20% liquid sodium permanganate from October 1, 2021 to September 30, 2022.
2. Bidder shall provide a toll-free or collect call phone number for ordering purposes.
3. Shall be bid as unit price per pound.
4. The City desires that the bid price shall be for a 12-month period from October 1, 2021 to September 30, 2022. Bid price shall be firm without increase (i.e., fuel surcharges) for this period.
5. The undersigned hereby certifies that the supplies listed on this bid proposal conform to the bid specifications in full and that any deviations from the said specifications are itemized below with a full explanation of the nature of the deviation. Further, the undersigned understands that any purchase made under a Contract for the same must comply with the bid specifications or the listed deviations, or the Contract may be considered canceled as a breach of Contract and another supplier may be awarded the remainder of the Contract.

**PRODUCT INFORMATION NOTES:** \_\_\_\_\_  
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**Contract from October 1, 2021 to September 30, 2022**

<i>Product Name</i>	<i>Cost/Unit</i>
<i>Authorized Signature</i>	<i>Printed Name</i>
<i>Company Name</i>	<i>Title</i>
<i>Contract Address</i>	<i>Date Signed</i>
<i>Contract City State Zip</i>	<i>Sales Contact Phone Number</i>
<i>Contract Execution Email</i>	<i>Sales Contact E-Mail</i>

## **SPECIFICATION FOR BID**

### **Pebble Quick Lime**

#### **PRODUCT REQUIREMENTS:**

1. Shall be delivered F.O.B. in truckload lots of approximately 25 tons per truckload. It will be the responsibility of the successful bidder to ensure that after delivery, the delivery area is thoroughly cleaned of any spillage.
2. Shall be shipped in blower type trucks and unloaded via a 4" supply line equipped with a 4" female cam-lock adapter.
3. Shall be accompanied by a certified weigh slip showing gross, tare and net weights.
4. Shall conform to AWWA standard B202 of latest revision.
5. Because of the limitations of storage and feed equipment at the Defiance WTP, quick lime shall be ½" to ¾" pebble size, screened to reduce dust content.
6. Failure of product to meet minimal standards will be grounds to void contract. Additionally, satisfactory quicklime for water treatment will slake without production of objectionable amounts of insoluble material. Determination of whether the product meets minimal standards or produces excessive amounts of insoluble material shall be at the discretion of the Water Superintendent.
7. Shall contain no less than 90% CaO.
8. Shall be free of foreign materials and contain no more than 3% LOI.
9. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals – Health Effects. Verification of compliance shall be included with bid documents.
10. In the event that an analysis by a referee or third-party laboratory is required to verify product quality, the supplier of the product shall pay all related cost for testing and shipping.
11. A product data sheet and MSDS sheet shall be included with the bid.

**REFERENCES MUST BE AVAILABLE ON REQUEST FOR ANY OF THE ABOVE REQUIREMENTS.**

**BID FORM**  
**Pebble Quick Lime**

1. The City of Defiance Water Division anticipates purchasing 900 tons, more or less, of pebble quick lime from October 1, 2021 to September 30, 2022. Sometimes however, the Water Division purchases a portion of its lime from another Municipality that markets recovered lime. Historically we have purchased as much as 40% of our lime from this optional source.
2. Bidder shall provide a toll-free or collect call phone number for ordering purposes.
3. Shall be bid as unit price per ton.
4. The City desires that the bid price shall be for a 12-month period from October 1, 2021 to September 30, 2022. The bid price shall be firm without increase (i.e., fuel surcharges) for this period.
5. The undersigned hereby certifies that the supplies listed on this bid proposal conform to the bid specifications in full and that any deviations from the said specifications are itemized below with a full explanation of the nature of the deviation. Further, the undersigned understands that any purchase made under a Contract for the same must comply with the bid specifications or the listed deviations, or the Contract may be considered canceled as a breach of Contract and another supplier may be awarded the remainder of the Contract.

**PRODUCT INFORMATION NOTES:** \_\_\_\_\_  
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**Contract from October 1, 2021 to September 30, 2022**

<i>Product Name</i>	<i>Cost/Unit</i>
<i>Authorized Signature</i>	<i>Printed Name</i>
<i>Company Name</i>	<i>Title</i>
<i>Contract Address</i>	<i>Date Signed</i>
<i>Contract City State Zip</i>	<i>Sales Contact Phone Number</i>
<i>Contract Execution Email</i>	<i>Sales Contact E-Mail</i>

## **SPECIFICATION FOR BID**

### **Powdered Activated Carbon**

#### **PRODUCT REQUIREMENTS:**

1. Shall be delivered F.O.B. in truckload lots in blower type truck and unloaded via a 4" supply line equipped with a 4" female cam lock adapter.
2. Shall be accompanied with a certified weigh slip showing gross, tare and net weights.
3. Shall conform to AWWA standard B600 of latest revision.
4. Shall contain no more than 5% moisture.
5. Shall be free of impurities and have the following particle size distribution:
  - a. 99% thru No. 100 Sieve
  - b. 95% thru No. 200 Sieve
  - c. 90% thru No. 325 Sieve
6. The apparent density of the activated carbon shall not be less than 0.2 g/cc nor greater than 0.75 g/cc.
7. Shall have an adsorptive capacity corresponding to an iodine number of 500 or greater.
8. Shall have taste and odor reduction not less than 70% of reference sample.
9. The powdered activated carbon supplied according to this bid shall contain no substances in quantities capable of producing deleterious or injurious effects on the health of those consuming water.
10. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 61, Drinking Water System Components – Health Effects. Verification of compliance shall be provided with bid documents.
11. In the event that the carbon supplied through this bid does not or cannot perform satisfactorily for removal of taste and odor compounds, such as MIB or Geosmin, the City reserves the right to purchase other activated carbon from the contracted supplier, or other suppliers, in an attempt to meet the City's water quality needs.
12. In the event that an analysis by a referee or third-party laboratory is required to verify product quality and or removal capabilities, the supplier of the product shall pay all related cost for testing and shipping.
13. A product data sheet and MSDS sheet shall be included with the bid.

**REFERENCES MUST BE AVAILABLE ON REQUEST FOR ANY OF THE ABOVE REQUIREMENTS.**

**BID FORM**  
**Powdered Activated Carbon**

1. The City of Defiance Water Division anticipates purchasing 42 tons, more or less, powdered activated carbon from October 1, 2021 to September 30, 2022. Bidder shall provide a toll-free or collect call phone number for ordering purposes.
2. Shall be bid as unit price per ton.
3. The City desires that the bid price shall be for a 12-month period from October 1, 2021 to September 30, 2022. The bid price shall be firm without increase (i.e., fuel surcharges) for this period.
4. The undersigned hereby certifies that the supplies listed on this bid proposal conform to the bid specifications in full and that any deviations from the said specifications are itemized below with a full explanation of the nature of the deviation. Further, the undersigned understands that any purchase made under a Contract for the same must comply with the bid specifications or the listed deviations, or the Contract may be considered canceled as a breach of Contract and another supplier may be awarded the remainder of the Contract.

**PRODUCT INFORMATION NOTES:** \_\_\_\_\_  
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